

Cover of a container, especially of a vacuum receptacle for storage of foodstuffs

The subject of the invention is a cover of a container, especially of a vacuum receptacle for storage of foodstuffs.

There are known receptacles for storage of foodstuffs having an external outline similar to a rectangular prism with rounded edges and external walls tapering to the bottom. Covers of the containers are made up by shells bulged upwards. The external outline of the cover is delineated by the external and internal rims forming a groove which serves to secure the cover onto the walls of the container. The groove houses a gasket. The cover features a vacuum valve in the form of a plug with a flexible end with a slot which closes when there is a pressure difference. The walls forming the slot are connected by means of couplings with a cylindrical edge of the plug and when pressed, along the slot, pull the walls of the slot apart from each other. Then the valve opens and the pressure inside the container is equalized with the atmospheric pressure. The valve is installed in the sleeve of the cover and the sleeve occupies the loading volume of the container, making it smaller.

The cover of the container, as provided in the invention, has a hollow with an elliptical base, pointed towards the inside of the container; the hollow has a spherical projection, pointed upwards. The projection has a cylindrical cavity with an opening that houses a valve head. The valve head, preferably in the form of a circular plate, has an edge with a triangular outline, cooperating with the gasket of the valve, wherein the head valve is installed loosely in the opening of the cover by means of a sleeve ended with a flange with two distancing projections in the form of radial ribs. The other end of the valve head has a pin used for opening the valve. The lower part of the valve is covered with a bonnet with distancing ribs that allows for air flow while pumping and opening the valve.

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In the solution provided in the invention, the vacuum valve is embedded in the cover of the container, which simplifies its construction and does not reduce the volume of the container.

The object of the invention is presented in drawings, wherein Fig. 1 is a plan view of the cover of the container with a base similar to a square, Fig. 2 - cross section A-A of the cover from Fig. 1, and Fig. 3 - detail "B" from Fig. 2.

The cover 1 has the hollow 2 with an elliptical outline, pointed towards the inside of the container; the hollow has the spherical projection 3, pointed upwards. The spherical outline of the projection 3 facilitates its cooperation with a nozzle of a vacuum pump because the pump may be put against the projection at an angle. The projection has the cylindrical cavity 4 with the opening 5 with the head valve 6. The head valve 6, in the form of the circular plate 7, has an edge 8 with a triangular outline, cooperating with the gasket 9 of the valve, wherein the head valve is installed loosely in the opening 5 by means of the sleeve 10 ending with the flange 11 equipped with distancing projections in the form of radial ribs. The projections prevent suction of the flange 11 of the sleeve 10 to the cover 1 while pumping air out of the container. The other end of head valve has the pin 12 used for opening of the valve. The valve is opened by pressing a side wall of the pin 12. The lower part of the valve is covered with the bonnet 13 with the distancing ribs 14 which allow for air flow while pumping air and opening the valve